



MATERIAL DECLARATION DATA SHEET

Device Name	Package Type	Pkg Wt (g)			
M2S010	FG484(23x23mm)	2.34			
Material Breakdown of Component	Material Breakdown (%)	Substance Name	CAS No.	Weight (g)	Substance Mass (%)
MOLD COMPOUND	40.24	Silica	60676-86-0	0.8728	92.7
		Resin	Proprietary	0.0471	5
		Metal Hydroxide	Proprietary	0.0188	2
		Carbon Black	1333-86-4	0.0028	0.3
				0.94157	100
SUBSTRATE	35.34	Bismaleimide/Triazine	13676-54-5	0.5429	65.65
		Copper (Cu)	7440-50-8	0.2642	31.95
		Gold (Au)	7440-57-5	0.0032	0.385
		Nickel (Ni)	7440-02-0	0.0167	2.015
				0.8270	100
DIE	0.88	Silicon	7440-21-3	0.0207	100
				0.0207	100
DIE ATTACH EPOXY	0.13	Silver	7440-22-4	0.0024	76
		Epoxy Resin	Proprietary	0.0008	24
				0.0031	100
SOLDER BALL	21.88	Tin	7440-31-5	0.3226	63
		Lead	7439-92-1	0.1895	37
				0.5121	100
GOLD WIRE	1.52	Gold	7440-57-5	0.0355	99.99
		Doping	Proprietary	0.0000	0.01
				0.0355	100
				2.3400	

Disclaimer: Microsemi believes this information to be correct, but cannot guarantee its completeness or accuracy. The information is based on data received from sources outside our company.

Revision No.	Date	Description of Change
	2/12/2014	Original release



MATERIAL DECLARATION DATA SHEET

Device Name	Package Type	Pkg Wt (g)			
M2S010	TQ144(20x20mm)	1.003			
Material Breakdown of Component	Material Breakdown (%)	Substance Name	CAS No.	Weight (g)	Substance Mass (%)
MOLD COMPOUND	71.59	Silica	60676-86-0	0.10145	14.00
		Resin	Proprietary	0.62319	86.00
		Carbon Black	1333-86-4	0.00000	0.00
				0.72464	100.00
LEADFRAME	24.62	Copper	7440-50-8	0.24074	97.50
		Fe	7440-47-3	0.00580	2.35
		P	7440-31-5	0.00007	0.03
		Zinc	7440-66-6	0.00030	0.12
				0.24691	100.00
DIE	1.77	Silicon	7440-21-3	0.01229	100.00
				0.01229	100.00
DIE ATTACH EPOXY	0.44	Silver	7440-22-4	0.00221	70.00
		Epoxy Resin	Proprietary	0.00063	20.00
		Anhydride		0.00032	10.00
				0.00316	100.00
BOND WIRE	0.29	Gold	7440-57-5	0.00290	99.05
		Pd	Proprietary	0.00003	0.95
		Ag	7440-22-4	0.00000	0.00
				0.00292	100.00
EXTERNAL PLATING	1.29	Tin	7440-31-5	0.01099	85.00
		Lead	7439-92-1	0.00194	15.00
				0.01293	100.00
				1.003	

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Revision No.	Date	Description of Change
1	2014/9/15	Initial release



MATERIAL DECLARATION DATA SHEET

Device Name M2S010	Package Type VF256(14x14mm)	Pkg Wt (g) 0.7098			
Material Breakdown of Component	Material Breakdown (%)	Substance Name	CAS No.	Weight (g)	Substance Mass (%)
MOLD COMPOUND	37.00	Silica	60676-86-0	0.2183	83.14
		Resin	Proprietary	0.0312	11.88
		Silica, crystalline-quartz (SiO2)	14808-60-7	0.0115	4.38
		Carbon Black	1333-86-4	0.0013	0.50
		Others	Proprietary	0.0003	0.10
				0.26262	100.00
SUBSTRATE	41.81	Bismaleimide/Triazine	13676-54-5	0.1948	65.65
		Copper (Cu)	7440-50-8	0.0948	31.95
		Gold (Au)	7440-57-5	0.0011	0.39
		Nickel (Ni)	7440-02-0	0.0060	2.02
				0.2968	100.00
DIE	2.30	Silicon	7440-21-3	0.0163	100.00
				0.0163	100.00
DIE ATTACH EPOXY	0.29	Silver	7440-22-4	0.0016	76.00
		Epoxy resin	Proprietary	0.0005	24.00
				0.0021	100.00
SOLDER BALL	17.33	Tin	7440-31-5	0.0775	63.00
		Lead	7439-92-1	0.0455	37.00
				0.1230	100.00
GOLD WIRE	1.27	Gold (Au)	7440-57-5	0.0089	99.00
		Palladium	7440-05-3	0.0001	1.00
				0.0090	100.00
				0.7098	

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Revision No.	Date	Description of Change
1	11/10/2015	Original release



MATERIAL DECLARATION DATA SHEET

Device Name M2S010	Package Type VF400	Pkg Wt (g) 0.9744			
Material Breakdown of Component	Material Breakdown (%)	Substance Name	CAS No.	Weight (g)	Substance Mass (%)
MOLD COMPOUND	39.43	Silica	60676-86-0	0.3228	84
		Resin	Proprietary	0.0607	15.8
		Carbon Black	1333-86-4	0.0008	0.2
				0.38425	100
SUBSTRATE	44.69	Bismaleimide/Triazine	13676-54-5	0.2859	65.65
		Copper (Cu)	7440-50-8	0.1391	31.95
		Gold (Au)	7440-57-5	0.0017	0.385
		Nickel (Ni)	7440-02-0	0.0088	2.015
				0.4355	100
DIE	2.12	Silicon	7440-21-3	0.0207	100
				0.0207	100
DIE ATTACH EPOXY	0.24	Silver	7440-22-4	0.0018	76
		Epoxy resin	Proprietary	0.0006	24
				0.0024	100
SOLDER BALL	12.10	Tin	7440-31-5	0.0743	63
		Lead	7439-92-1	0.0436	37
				0.1179	100
GOLD WIRE	1.41	Gold	7440-57-5	0.0137	99.99
		Doping	Proprietary	0.0000	0.01
				0.0137	100
				0.9744	

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Revision No.	Date	Description of Change
1	2014/6/25	Original release
2	2015/11/9	Add M2S060, M2GL060